

TITLE

DNA AND AMINO ACID SEQUENCES OF A TYROSINE  
AMMONIA LYASE ENZYME FROM THE BACTERIUM *RHODOBACTER*  
*SPHAEROIDES*

5

ABSTRACT OF THE DISCLOSURE

A novel tyrosine ammonia lyase enzyme was identified in the  
bacterium *Rhodobacter sphaeroides*. This enzyme has a higher activity  
for tyrosine than for phenylalanine and is useful for the production of para-  
hydroxycinnamic acid directly from tyrosine. The gene encoding this  
10 enzyme was cloned by direct amplification using the genomic DNA and  
was expressed in *E. coli*.

15

20

25

30

35

SNF/dmm